EXAMINER'S AMENDMENT

1.   An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

The application has been amended as follows:

2.   Authorization for this Examiner's amendment was given in a telephone interview

with Applicant's Attorney (Mr. Michael S. Ryan, Reg. No. 63,115), on September 27,

2010, to authorize the examiner to amend **claims 71-75**.

3.   The application is amended as follows:

4.   Amend specification as follows:

Abstract

Three camera rigs are connected by wiring to a computer. The computer is also

connected to a treatment apparatus. A mechanical couch is provided as part of the

treatment apparatus such that under the control of the computer the relative positions of

the mechanical couch and the treatment apparatus may be varied. The camera rigs

obtain video images of a patient lying on the mechanical couch. The computer

processes these images to generate a three-dimensional model of the surface of the

patient relative to the treatment apparatus.

5.   Please cancel **claim 73**.

6.   In claim 71, on line 1, after "A", delete [non-transitory data carrier], and insert

--- **computer disc** ---.

7.   In claim 72, on line 1, after "A", delete [non-transitory data carrier], and insert

--- **computer disc** ---.

8.   In claim 75, on line 1, after "A", delete [non-transitory], and insert --- **A computer**

---; on line 2, after "claim" delete [73], and insert --- **71** ---.

Drawings

9.   The drawings were received on December 1, 2004. These drawings are

accepted by the Examiner.

Reasons for Allowance

10.   The following is an Examiner's statement of reasons for allowance.

The prior art of record fails to teach or suggest, identifying points stored in said queue

store; and processing unit operable sequentially processing each of points identified by

a queue stored in said queue store, by: adding data to the end of said queue stored in

said queue store identifying points which are adjacent to the point identified by data at

the head of the queue and for which no calculated transform has been determined;

utilizing said estimated transform stored in said data store for the point identified by data

at the head of the queue stored in said queue store to determine a calculated transform

for said point to match the portion of said first image identified by said point to said

corresponding portion of a said second image received by said receiver; in combination

into other features and elements of **claims 1, and 27**; storing for each point in an array

of points in said first image an estimated transform received to match a portion of said

first image identified by said point corresponding to part of said object to the portion of

said second image representative of the same part of said object, and utilizing said

estimated transforms to determine said corresponding parts, wherein the initial

estimated transforms comprise calculated transforms for matching corresponding points

in an earlier pair of image frames, in combination into other features and elements of

claims 49.

11.   Claims 1-49, 71-72, and 75 (now renumbered as claims 1-52 for issue) are

allowed.

12.   Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Citation of Relevant Prior Art

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kreeger et al. (US Patent No. US 7,706,600) discloses **ENHANCED VIRTUAL NAVIGATION AND EXAMINATION**

Conclusion

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mehdi Rashidian whose telephone number is (571) 272-9763. The examiner can normally be reached on Mon-Thurs 9:00 AM to 8:00 PM, ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Samir Ahmed can be reached on (571) 272-7413. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mehdi Rashidian/
Examiner, Art Unit 2624

September 28, 2010

/Samir A. Ahmed/

Supervisory Patent Examiner, Art Unit 2624